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The Irwin Auger Bit Company

SOLE MANUFACTURERS OF

THE IRWIN PATENT
SOLID-CENTER STEM
AUGER BITS



1904-1905

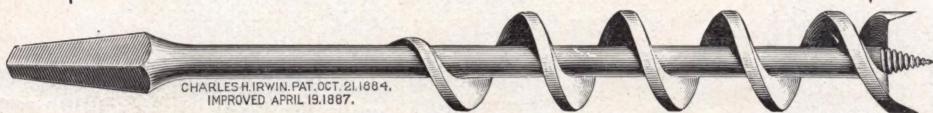
WILMINGTON, OHIO, U. S. A.



1904-1905
CATALOGUE AND
PRICE LIST OF

....The....
Irwin Auger Bit
Company

WILMINGTON
OHIO, U. S. A.



CHARLES H. IRWIN, PAT. OCT. 21, 1884.
IMPROVED APRIL 19, 1887.

SOLE MANUFACTURERS OF
The Irwin Patent
Solid-Center Stem Augers and Bits

Cable Address "BITCA."

EARLY AMERICAN
INDUSTRIES ASSOCIATION

E 0901

FAST AND EASY CUTTERS.

DURING the time that the Solid-center Stem Bits have been on the market they have steadily grown in favor, and they are now recognized as being the strongest, finest finished, most accurate, the fastest and easiest cutting, and the least liable to choke of any kind now on the market.

As a Machine Bit for use in machines running at a high rate of speed they cannot be excelled, for the reason that they are uniform in strength throughout, a merit not possessed by any other make of Bit.

The old style Bit is the weakest at the point where the twist and the shank unite, and that is where they usually break.

We have had numbers of unsolicited testimonials from manufacturing companies, speaking in highest praise of these Bits.

WILMINGTON, OHIO, U. S. A.

Do You Use or Sell a First Class Tool?

If You Do, Order

The Irwin Patent

Solid-Center Stem Auger-Bits

If You Never Have,

It is Time That You Should Commence

THE IRWIN AUGER BIT CO.

TO THE TRADE AND TO THE PUBLIC.

OUR manufacturing plant has been in operation for several years, and has steadily grown until it is at present one of the largest of this country. The high-grade machinery used, and the large number of skilled mechanics employed, enable us to turn out large quantities of Augers and Bits of a superior quality and finish.

SUPERIOR ADVANTAGES.

OWING to the fact that these Bits have but one crimp it is impossible for them to choke, as the clearance is double that of the old-fashioned kind with two crimps. No pressure is required in boring, and they will bore either in end or side of wood. They are the only Bits made having a solid center, and are therefore much stronger than other styles.

These Bits have been made to bore much more rapidly than those of other patterns.

Other kinds vary in the rapidity with which they cut, some cutting a hole one inch deep with every 16 to 18 revolutions, others every 18 to 20 revolutions, while these require only 12 to 16 revolutions.

THE PAST.



In this age of invention a man must keep up with the march of progress, or he will be relegated to the past and soon be forgotten.

This cut represents a mechanic who is working for a contractor who thinks the old-fashioned Bits used by his father are good enough for him. The final result is evident.

WILMINGTON, OHIO, U. S. A.

THE PRESENT.



THIS cut represents a man who believes the best is always the cheapest, and he backs up his judgment by the purchase of the "IRWIN BITS."

No old-fashioned "Bits" for him. Nothing but the Single-twist, Solid-center Stem will answer his needs.

THE IRWIN AUGER BIT CO.

EXTRA QUALITY.

THESE BITS are made of Extra High-grade Crucible Auger-bit Steel, ordered specially for their manufacture, and each Bit is fully warranted.

They are finished in first-class style, and each Bit is highly polished and wrapped in oiled paper.

FOR PRICES, SEE NEXT PAGE.

WILMINGTON, OHIO, U. S. A.

AUGER-BITS.

DOUBLE CUTTER.

EXTENSION LIP.



| | | | | | | |
|--------------------|---|---|----|---|----|---|
| Size in 16ths..... | 3 | 4 | 4½ | 5 | 5½ | 6 |
|--------------------|---|---|----|---|----|---|

| | | | | | | |
|---------------------|--------|------|------|------|------|------|
| Price per dozen.... | \$3.40 | 3.00 | 3.40 | 3.40 | 3.80 | 3.80 |
|---------------------|--------|------|------|------|------|------|

| | | | | | |
|--------------------|----|---|----|---|----|
| Size in 16ths..... | 6½ | 7 | 7½ | 8 | 8½ |
|--------------------|----|---|----|---|----|

| | | | | | |
|----------------------|--------|------|------|------|------|
| Price per dozen..... | \$4.40 | 4.40 | 4.80 | 4.80 | 5.20 |
|----------------------|--------|------|------|------|------|

| | | | | | |
|--------------------|---|----|----|----|----|
| Size in 16ths..... | 9 | 10 | 11 | 12 | 13 |
|--------------------|---|----|----|----|----|

| | | | | | |
|----------------------|--------|------|------|------|------|
| Price per dozen..... | \$5.20 | 5.60 | 6.00 | 6.60 | 7.20 |
|----------------------|--------|------|------|------|------|

| | | | | | |
|--------------------|----|----|----|----|----|
| Size in 16ths..... | 14 | 15 | 16 | 17 | 18 |
|--------------------|----|----|----|----|----|

| | | | | | |
|----------------------|--------|------|------|------|-------|
| Price per dozen..... | \$7.80 | 8.40 | 9.00 | 9.60 | 10.20 |
|----------------------|--------|------|------|------|-------|

| | | | | | |
|--------------------|----|----|----|----|----|
| Size in 16ths..... | 19 | 20 | 21 | 22 | 23 |
|--------------------|----|----|----|----|----|

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Price per dozen..... | \$10.80 | 11.40 | 12.00 | 12.60 | 13.20 |
|----------------------|---------|-------|-------|-------|-------|

| | | | | | |
|--------------------|----|----|----|----|----|
| Size in 16ths..... | 24 | 26 | 28 | 30 | 32 |
|--------------------|----|----|----|----|----|

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Price per dozen..... | \$13.80 | 15.00 | 16.20 | 17.40 | 18.60 |
|----------------------|---------|-------|-------|-------|-------|

SETS.

| | | |
|-------------------------|--------|---|
| 20½ Quarters (Farmer's) | \$4.25 | Double-cutter Auger-bits, made in sizes from 3-16 to 32-16. Millimeter sizes on pages 41 and 42. |
| 24 Quarters | 4.75 | |
| 25½ Quarters | 5.00 | |
| 32½ Quarters | 6.25 | |

See page 15.

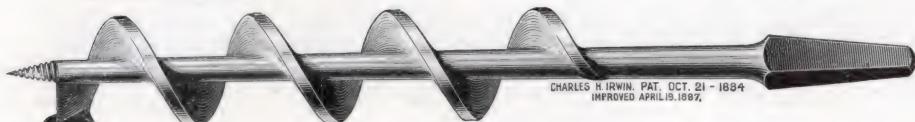
DISCOUNT

THE IRWIN AUGER BIT CO.

AUGER-BITS.

SINGLE CUTTER.

SOLID CENTER.



| | | | | | | |
|---------------------|--------|------|------|------|------|------|
| Size in 16ths. | 3 | 4 | 4½ | 5 | 5½ | 6 |
| Price per dozen.... | \$3.40 | 3.00 | 3.40 | 3.40 | 3.80 | 3.80 |

| | | | | | |
|---------------------|--------|------|------|------|------|
| Size in 16ths. | 6½ | 7 | 7½ | 8 | 8½ |
| Price per dozen.... | \$4.40 | 4.40 | 4.80 | 4.80 | 5.20 |

| | | | | | |
|---------------------|--------|------|------|------|------|
| Size in 16ths. | 9 | 10 | 11 | 12 | 13 |
| Price per dozen.... | \$5.20 | 5.60 | 6.10 | 6.60 | 7.20 |

| | | | | | |
|---------------------|--------|------|------|------|-------|
| Size in 16ths. | 14 | 15 | 16 | 17 | 18 |
| Price per dozen.... | \$7.80 | 8.40 | 9.00 | 9.60 | 10.20 |

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Size in 16ths. | 19 | 20 | 21 | 22 | 23 |
| Price per dozen.... | \$10.80 | 11.40 | 12.00 | 12.60 | 13.20 |

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Size in 16ths. | 24 | 26 | 28 | 30 | 32 |
| Price per dozen.... | \$13.80 | 15.00 | 16.20 | 17.40 | 18.60 |

SETS.

| | |
|-------------------|--------|
| 20½ Quarters..... | \$4.25 |
| 24 Quarters..... | 4.75 |

See page 15.

SETS.

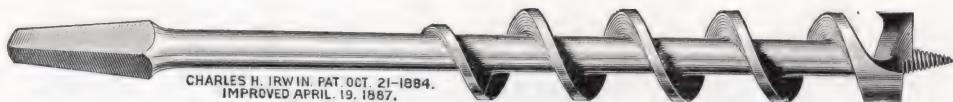
| | |
|-------------------|--------|
| 25½ Quarters..... | \$5.00 |
| 32½ Quarters..... | 6.25 |

DISCOUNT.....

WILMINGTON, OHIO, U. S. A.

SHIP AUGER-BITS.

WITH OR WITHOUT SCREW POINT.



| | | | | | |
|----------------------|--------|------|------|------|------|
| Size in 8ths | 2 | 2½ | 3 | 3½ | 40 |
| Price per dozen..... | \$6.00 | 6.00 | 6.00 | 6.00 | 6.00 |

| | | | | | |
|----------------------|--------|------|------|------|-------|
| Size in 8ths | 4½ | 5 | 5½ | 6 | 6½ |
| Price per dozen..... | \$7.50 | 7.50 | 9.00 | 9.00 | 10.50 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 8ths | 7 | 7½ | 8 | 8½ | 9 |
| Price per dozen..... | \$10.50 | 12.00 | 12.00 | 13.50 | 13.50 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 8ths | 9½ | 10 | 10½ | 11 |
| Price per dozen..... | \$15.00 | 15.00 | 16.50 | 16.50 |

| | | | | | | |
|----------------------|---------|-------|-------|-------|-------|-------|
| Size in 8ths | 11½ | 12 | 13 | 14 | 15 | 16 |
| Price per dozen..... | \$18.00 | 18.00 | 19.50 | 21.00 | 22.50 | 24.00 |

WRITE FOR DISCOUNT.

—10½—

LOST.

TIME.

MONEY.



THIS cut represents a man working for a railroad using old-style Car Bits. No dividends declared on this road's stock, but a desperate and continuous effort to keep out of the hands of a receiver.

TAKE WARNING.

WILMINGTON, OHIO, U. S. A.

FOUND.

TIME SAVED.

MONEY MADE.



THIS man uses a bit that will bore.

No choking, no breaking,

No swearing, no tearing,

A bit without bending,

A joy without ending.

(SEE NEXT PAGE.)

THE IRWIN AUGER BIT CO.

CAR BITS.



CHARLES H. IRWIN, PAT. OCT. 21-1884.

IMPROVED APRIL 19-1887.

Twist, about 14 inches.
Shank, about 4 inches.

Total length,
18 inches.

DOUBLE CUTTER.

| | | | | | |
|----------------------|--------|------|------|------|------|
| Size in 16ths..... | 4 | 4½ | 5 | 5½ | 6 |
| Price per dozen..... | \$6.00 | 6.80 | 6.80 | 7.60 | 7.60 |

| | | | | | |
|----------------------|--------|------|------|------|-------|
| Size in 16ths..... | 6½ | 7 | 7½ | 8 | 8½ |
| Price per dozen..... | \$8.80 | 8.80 | 9.60 | 9.60 | 10.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths..... | 9 | 10 | 11 | 12 | 13 |
| Price per dozen..... | \$10.40 | 11.20 | 12.20 | 13.20 | 14.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths..... | 14 | 15 | 16 | 17 | 18 |
| Price per dozen..... | \$15.60 | 16.80 | 18.00 | 19.20 | 20.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths..... | 19 | 20 | 21 | 22 | 23 |
| Price per dozen..... | \$21.60 | 22.80 | 24.00 | 25.20 | 26.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths..... | 24 | 26 | 28 | 30 | 32 |
| Price per dozen..... | \$27.60 | 30.00 | 32.40 | 34.80 | 37.20 |

SETS.
24 Quarters.....\$ 9.50
32½ Quarters.....12.50 } Double-Cutter Car Bits always in stock in sizes from 4-16 to 32-16.
Millimeter sizes on pages 41 and 42.

See page 15.

DISCOUNTS.....

WILMINGTON, OHIO, U. S. A.

CAR BITS.



CHARLES WILMINGTON, PAT. OCT. 2 - 1894.

WILMINGTON, OHIO, U. S. A.

Twist, 14 inches.

Shank, 4 inches.

SINGLE CUTTER.

| | | | | | |
|----------------------|--------|------|------|------|------|
| Size in 16ths | 3 | 4 | 4½ | 5 | 5½ |
| Price per dozen..... | \$6.80 | 6.00 | 6.80 | 6.80 | 7.60 |

| | | | | | | |
|----------------------|--------|------|------|------|------|-------|
| Size in 16ths | 6 | 6½ | 7 | 7½ | 8 | 8½ |
| Price per dozen..... | \$7.60 | 8.80 | 8.80 | 9.60 | 9.60 | 10.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 9 | 10 | 11 | 12 | 13 |
| Price per dozen..... | \$10.40 | 11.20 | 12.20 | 13.20 | 14.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 14 | 15 | 16 | 17 | 18 |
| Price per dozen..... | \$15.60 | 16.80 | 18.00 | 19.20 | 20.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 19 | 20 | 21 | 22 | 23 |
| Price per dozen..... | \$21.60 | 22.80 | 24.00 | 25.20 | 26.40 |

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 24 | 26 | 28 | 30 | 32 |
| Price per dozen..... | \$27.60 | 30.00 | 32.40 | 34.80 | 37.20 |

SETS.

| | |
|--------------------|---------|
| 24 Quarters. | \$ 9.50 |
| 32½ Quarters. | 12.50 |

See page 15.

WRITE FOR DISCOUNT.

THE IRWIN AUGER BIT CO.

SHIP AUGER CAR BITS.

WITH OR WITHOUT SCREW POINT.

Twist, 14 inches.

Total length, 18 inches.

| | | | | | |
|----------------------|--------|------|------|------|-------|
| Size in 8ths | 2 | 2½ | 3 | 3½ | 4 |
| Price per dozen..... | \$8.00 | 8.50 | 9.00 | 9.50 | 10.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 8ths | 4½ | 5 | 5½ | 6 |
| Price per dozen..... | \$10.50 | 11.00 | 11.50 | 12.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 8ths | 6½ | 7 | 7½ | 8 |
| Price per dozen..... | \$12.50 | 13.00 | 14.00 | 14.50 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 8ths | 8½ | 9 | 9½ | 10 |
| Price per dozen..... | \$15.50 | 16.00 | 17.00 | 17.50 |

| | | | | |
|-----------------------|---------|-------|-------|-------|
| Size in 8ths | 10½ | 11 | 11½ | 12 |
| Price per dozen..... | \$18.50 | 19.00 | 21.50 | 22.00 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 8ths | 13 | 14 | 15 | 16 |
| Price per dozen..... | \$25.50 | 26.50 | 28.00 | 29.50 |

SETS.

| | |
|--------------------|---------|
| 24 Quarters. | \$10.00 |
| 32½ Quarters. | 12.00 |

WRITE FOR DISCOUNT.

For extra Lengths, see next page.

CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19, 1887.



SHIP AUGER CAR BITS.**SPECIAL LENGTHS.**

Regular stock lengths are 18 to 19 inches, the twist being 14 inches and the shank 4 inches. Special lengths made if wanted. Lengths longer than 18 inches will cost in addition to regular list price as follows:

| 4-8 for each additional inch in length, Per doz. list. | | | | | \$0.45 |
|--|---|---|---|---|--------|
| 4½-8 | " | " | " | " | .50 |
| 5-8 | " | " | " | " | .55 |
| 5½-8 | " | " | " | " | .60 |
| 6-8 | " | " | " | " | .65 |
| 6½-8 | " | " | " | " | .70 |
| 7-8 | " | " | " | " | .75 |
| 7½-8 | " | " | " | " | .80 |
| 8-8 | " | " | " | " | .85 |
| 8½-8 | " | " | " | " | .90 |
| 9-8 | " | " | " | " | .95 |
| 10-8 | " | " | " | " | 1.05 |
| 11-8 | " | " | " | " | 1.15 |
| 12-8 | " | " | " | " | 1.25 |
| 13-8 | " | " | " | " | 1.35 |
| 14-8 | " | " | " | " | 1.45 |
| 15-8 | " | " | " | " | 1.55 |
| 16-8 | " | " | " | " | 1.65 |

CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19, 1887.



AUGER AND CAR BITS.

FOR HARDWOOD BORING



CHARLES H. IRWIN, PAT. OCT. 21-1884.
IMPROVED APRIL-19-1887.



CHARLES HIRWIN, PAT. OCT. 21-1884.
IMPROVED APRIL-19-1887.

RECOGNIZING the fact that the ordinary patterns of Auger-Bits are not suitable for boring the hard woods of South and Central America, Mexico, Australia and South Africa, we have made a bit especially adapted to this class of wood. It is the same in all respects as our patent Solid-center Stem-Bits, except the screw and cutter.

The screw is very much coarser and the cutters do not have an under cutter, or what is termed a floor lip, as this is only necessary for use in soft woods or wood with a long grain or fiber.

In cutting these hard woods the chips seem to go to powder and this has a tendency to clog the screw-point, so that the ordinary bit will not bore.

It is different with our bits, for after the screw is thoroughly started no pressure is required in forcing the bit into the wood. It is a difficult matter to withdraw the bit while turning forward, and it is often necessary to turn backward a few rounds until the screw becomes loosened before the bit can be withdrawn. By writing to your New York export house you can secure samples of this improved bit and give it a practical test.

After trying this bit we feel assured that you will use no other, as it has many advantages to commend it.

Sizes from 4 to 24-16 kept in stock.

Prices Same as Our Regular Stock Auger or Car Bits.

See Pages 9 and 13.

Car
Bit.

TO MANUFACTURERS ESPECIALLY.



HAVE you learned that there is a bit now on the market better adapted to your purpose than any that you have ever used? One that never breaks, but is good until worn out?

One that is uniform in strength throughout; one that does not break off at the point where the shank and the twist connect, a defect that cannot be overcome with the "old-style double twist bit"?

One that will never choke, but will bore in any kind of wood, soft or hard?

One that will save you time and save you money? Try them. Be convinced.

A HUMMER.

THIS man has at last found what he has been hunting for years:



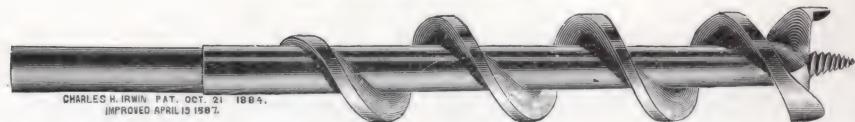
"A PERFECT MACHINE BIT."

You can get the same kind. We've got them, and can fill your order at once. Write for sample and prices.

See next page, giving list of sizes and length of twists kept in stock at all times.

WILMINGTON, OHIO, U. S. A.

MACHINE BITS.



EXTENSION LIP, DOUBLE CUTTER.
For Power Boring.



COMMON HEAD, DOUBLE CUTTER.

| | | | | | |
|---------------------|---|----|---|----|---|
| Size in 16ths | 4 | 4½ | 5 | 5½ | 6 |
|---------------------|---|----|---|----|---|

| | | | | | |
|----------------------|--------|------|------|------|------|
| Price per dozen..... | \$4.50 | 5.10 | 5.10 | 5.70 | 5.70 |
|----------------------|--------|------|------|------|------|

| | | | | | |
|---------------------|----|---|----|---|----|
| Size in 16ths | 6½ | 7 | 7½ | 8 | 8½ |
|---------------------|----|---|----|---|----|

| | | | | | |
|----------------------|--------|------|------|------|------|
| Price per dozen..... | \$6.60 | 6.60 | 7.20 | 7.20 | 7.80 |
|----------------------|--------|------|------|------|------|

| | | | | | |
|---------------------|---|----|----|----|----|
| Size in 16ths | 9 | 10 | 11 | 12 | 13 |
|---------------------|---|----|----|----|----|

| | | | | | |
|----------------------|--------|------|------|------|-------|
| Price per dozen..... | \$7.80 | 8.40 | 9.15 | 9.90 | 10.80 |
|----------------------|--------|------|------|------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 14 | 15 | 16 | 17 | 18 |
|---------------------|----|----|----|----|----|

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Price per dozen..... | \$11.70 | 12.60 | 13.50 | 14.40 | 15.30 |
|----------------------|---------|-------|-------|-------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 19 | 20 | 21 | 22 | 23 |
|---------------------|----|----|----|----|----|

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Price per dozen..... | \$16.20 | 17.10 | 18.00 | 18.90 | 19.80 |
|----------------------|---------|-------|-------|-------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 24 | 26 | 28 | 30 | 32 |
|---------------------|----|----|----|----|----|

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Price per dozen..... | \$20.70 | 22.50 | 24.30 | 26.10 | 27.90 |
|----------------------|---------|-------|-------|-------|-------|

Note.

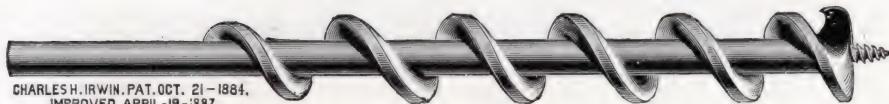
Machine Bits always in stock in sizes from 4-16 to 16-16, with twist 3, 4, 5, 6, 7, 8, 10 and 12 inches long; shank 2 inches long by $\frac{1}{2}$ inch in diameter. Machine bits with twist more than 6 inches will be charged for at special prices. Extra price for special shanks.

See page 20.

DISCOUNT.....

THE IRWIN AUGER BIT CO.

MACHINE BITS.



CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19-1897.

COOK HEAD, DOUBLE CUTTER.

For Power Boring.



CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19-1897.

SINGLE CUTTER.

| Size in 16ths | 4 | 4½ | 5 | 5½ | 6 |
|---------------------|---|----|---|----|---|
|---------------------|---|----|---|----|---|

| | | | | | |
|-----------------------|--------|------|------|------|------|
| Price per dozen | \$4.50 | 5.10 | 5.10 | 5.70 | 5.70 |
|-----------------------|--------|------|------|------|------|

| Size in 16ths | 6½ | 7 | 7½ | 8 | 8½ |
|---------------------|----|---|----|---|----|
|---------------------|----|---|----|---|----|

| | | | | | |
|-----------------------|--------|------|------|------|------|
| Price per dozen | \$6.60 | 6.60 | 7.20 | 7.20 | 7.80 |
|-----------------------|--------|------|------|------|------|

| Size in 16ths | 9 | 10 | 11 | 12 | 13 |
|---------------------|---|----|----|----|----|
|---------------------|---|----|----|----|----|

| | | | | | |
|-----------------------|--------|------|------|------|-------|
| Price per dozen | \$7.80 | 8.40 | 9.15 | 9.90 | 10.80 |
|-----------------------|--------|------|------|------|-------|

| Size in 16ths | 14 | 15 | 16 | 17 | 18 |
|---------------------|----|----|----|----|----|
|---------------------|----|----|----|----|----|

| | | | | | |
|-----------------------|---------|-------|-------|-------|-------|
| Price per dozen | \$11.70 | 12.60 | 13.50 | 14.40 | 15.30 |
|-----------------------|---------|-------|-------|-------|-------|

| Size in 16ths | 19 | 20 | 21 | 22 | 23 |
|---------------------|----|----|----|----|----|
|---------------------|----|----|----|----|----|

| | | | | | |
|-----------------------|---------|-------|-------|-------|-------|
| Price per dozen | \$16.20 | 17.10 | 18.00 | 18.90 | 19.80 |
|-----------------------|---------|-------|-------|-------|-------|

| Size in 16ths | 24 | 26 | 28 | 30 | 32 |
|---------------------|----|----|----|----|----|
|---------------------|----|----|----|----|----|

| | | | | | |
|-----------------------|---------|-------|-------|-------|-------|
| Price per dozen | \$20.70 | 22.50 | 24.30 | 26.10 | 27.90 |
|-----------------------|---------|-------|-------|-------|-------|

Twist 6 inches, shank 2 inches long by $\frac{1}{2}$ inch diameter; extra price for special shanks. Machine Bits with twist more than 6 inches will be charged for at special prices given on page 20. Millimeter sizes on pages 41 and 42.

See next page.

DISCOUNT.....

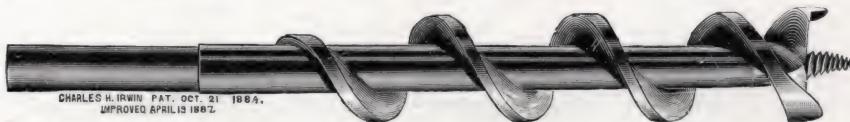
WILMINGTON, OHIO, U. S. A.

MACHINE BITS.

SPECIAL SIZES AND PRICES.



CHARLES H. IRWIN, PAT. OCT. 21-1884.
IMPROVED APRIL 19 1887.



CHARLES H. IRWIN, PAT. OCT. 21-1884.
IMPROVED APRIL 19 1887.

List Per Dozen.

| Size in 16ths | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 inch. | 5.00 | 5.70 | 6.40 | 7.40 | 8.10 | 8.80 | 9.50 | 10.35 | 11.20 | 12.20 | 13.20 | 14.20 | 15.20 |
| 10 inch. | 5.50 | 6.30 | 7.10 | 8.20 | 9.00 | 9.80 | 10.60 | 11.55 | 12.50 | 13.60 | 14.70 | 15.80 | 16.90 |
| 12 inch. | 6.00 | 6.90 | 7.80 | 9.00 | 9.90 | 10.80 | 11.70 | 12.75 | 13.80 | 15.00 | 16.20 | 17.40 | 18.60 |
| 14 inch. | 6.50 | 7.50 | 8.50 | 9.80 | 10.80 | 11.80 | 12.80 | 13.95 | 15.10 | 16.40 | 17.70 | 19.00 | 20.30 |
| 16 inch. | 7.00 | 8.10 | 9.20 | 10.60 | 11.70 | 12.80 | 13.90 | 15.15 | 16.40 | 17.80 | 19.20 | 20.60 | 22.00 |
| 18 inch. | 7.50 | 8.70 | 9.90 | 11.40 | 12.60 | 13.80 | 15.00 | 16.35 | 17.70 | 19.20 | 20.70 | 22.20 | 23.70 |
| 20 inch. | 8.00 | 9.30 | 10.60 | 12.20 | 13.50 | 14.80 | 16.10 | 17.55 | 19.00 | 20.60 | 22.20 | 23.80 | 25.40 |
| 22 inch. | 8.50 | 9.90 | 11.30 | 13.00 | 14.40 | 15.80 | 17.20 | 18.75 | 20.30 | 22.00 | 23.70 | 25.40 | 27.10 |
| 24 inch. | 9.00 | 10.50 | 12.00 | 13.80 | 15.30 | 16.80 | 18.30 | 19.95 | 21.60 | 23.40 | 25.20 | 27.00 | 28.80 |
| 26 inch. | 9.50 | 11.10 | 12.70 | 14.60 | 16.20 | 17.80 | 19.40 | 21.15 | 22.90 | 24.80 | 26.70 | 28.60 | 30.50 |
| 28 inch. | 10.00 | 11.70 | 13.40 | 15.40 | 17.10 | 18.80 | 20.50 | 22.35 | 24.20 | 26.20 | 28.20 | 30.20 | 32.20 |
| 30 inch. | 10.50 | 12.30 | 14.10 | 16.20 | 18.00 | 19.80 | 21.60 | 23.55 | 25.50 | 27.60 | 29.70 | 31.80 | 33.90 |
| 32 inch. | 11.00 | 12.90 | 14.80 | 17.00 | 18.90 | 20.80 | 22.70 | 24.75 | 26.80 | 29.00 | 31.20 | 33.40 | 35.60 |
| 34 inch. | 11.50 | 13.50 | 15.50 | 17.80 | 19.80 | 21.80 | 23.80 | 25.95 | 28.10 | 30.40 | 32.70 | 35.00 | 37.30 |
| 36 inch. | 12.00 | 14.10 | 16.20 | 18.60 | 20.70 | 22.80 | 24.90 | 27.15 | 29.40 | 31.80 | 34.20 | 36.60 | 39.00 |

| Size in 16ths | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 26 | 28 | 30 | 32 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8 inch..... | 16.20 | 17.20 | 18.20 | 19.20 | 20.20 | 21.20 | 22.20 | 23.20 | 25.10 | 27.00 | 28.90 | 30.80 |
| 10 inch..... | 18.00 | 19.10 | 20.20 | 21.30 | 22.40 | 23.50 | 24.60 | 25.70 | 27.70 | 29.70 | 31.70 | 33.70 |
| 12 inch..... | 19.80 | 21.00 | 22.20 | 23.40 | 24.60 | 25.80 | 27.00 | 28.20 | 30.30 | 32.40 | 34.50 | 36.60 |
| 14 inch..... | 21.60 | 22.90 | 24.20 | 25.50 | 26.80 | 28.10 | 29.40 | 30.70 | 32.90 | 35.10 | 37.30 | 39.50 |
| 16 inch..... | 23.40 | 24.80 | 26.20 | 27.60 | 29.00 | 30.40 | 31.80 | 33.20 | 35.50 | 37.80 | 40.10 | 42.40 |
| 18 inch..... | 25.20 | 26.70 | 28.20 | 29.70 | 31.20 | 32.70 | 34.20 | 35.70 | 38.10 | 40.50 | 42.90 | 45.30 |
| 20 inch..... | 27.00 | 28.60 | 30.20 | 31.80 | 33.40 | 35.00 | 36.60 | 38.20 | 40.70 | 43.20 | 45.70 | 48.20 |
| 22 inch..... | 28.80 | 30.50 | 32.20 | 33.90 | 35.60 | 37.30 | 39.00 | 40.70 | 43.30 | 45.90 | 48.50 | 51.10 |
| 24 inch..... | 30.60 | 32.40 | 34.20 | 36.00 | 37.80 | 39.60 | 41.40 | 43.20 | 45.90 | 48.60 | 51.30 | 54.00 |
| 26 inch..... | 32.40 | 34.30 | 36.20 | 38.10 | 40.00 | 41.90 | 43.80 | 45.70 | 48.50 | 51.30 | 54.10 | 56.90 |
| 28 inch..... | 34.20 | 36.20 | 38.20 | 40.20 | 42.20 | 44.20 | 46.20 | 48.20 | 51.10 | 54.00 | 56.90 | 59.80 |
| 30 inch..... | 36.00 | 38.10 | 40.20 | 42.30 | 44.40 | 46.50 | 48.60 | 50.70 | 53.70 | 56.70 | 59.70 | 62.70 |
| 32 inch..... | 37.80 | 40.00 | 42.20 | 44.40 | 46.60 | 48.80 | 51.00 | 53.20 | 56.30 | 59.40 | 62.50 | 65.60 |
| 34 inch..... | 39.60 | 41.90 | 44.20 | 46.50 | 48.80 | 51.10 | 53.40 | 55.70 | 58.90 | 62.10 | 65.30 | 68.50 |
| 36 inch..... | 41.40 | 43.80 | 46.20 | 48.60 | 51.00 | 53.40 | 55.80 | 58.20 | 61.50 | 64.80 | 68.10 | 71.40 |

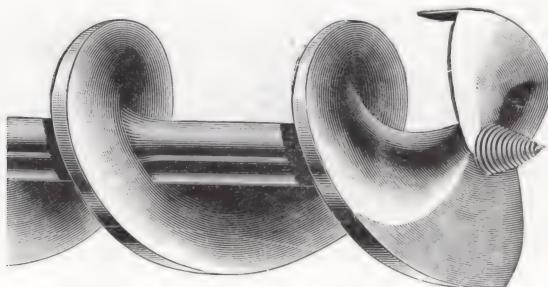
Any of the above sizes or lengths Twist made if ordered in lots of three dozen or over. See page No. 40 in reference to special sized Chucks.

DISCOUNT

THE IRWIN AUGER BIT CO.

BORING MACHINE AUGERS.

FOR HAND BORING.



Circular Cutter.

Double Cutter.

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths . . . | 12 | 14 | 16 | 18 | 20 |
|---------------------|----|----|----|----|----|

| | | | | | |
|------------------|---------|-------|-------|-------|-------|
| Price per dozen. | \$10.50 | 11.25 | 12.00 | 12.75 | 13.50 |
|------------------|---------|-------|-------|-------|-------|

| | | | | |
|---------------------|----|----|----|----|
| Size in 16ths . . . | 22 | 24 | 28 | 32 |
|---------------------|----|----|----|----|

| | | | | |
|------------------|---------|-------|-------|-------|
| Price per dozen. | \$14.25 | 15.00 | 16.50 | 18.00 |
|------------------|---------|-------|-------|-------|

SETS.

18 Quarters \$3.75

23 Quarters 4.80

18 Quarters contains one each 16, 24, and 32.

23 Quarters contains one each 16, 20, 24, and 32.

Millimeter sizes on pages 41 and 42.

Either square or circular Cutter furnished.

DISCOUNT



WILMINGTON, OHIO, U. S. A.

BORING MACHINE AUGERS.

SINGLE CUTTER.



CHARLES H. IRWIN PAT OCT- 21 1884.
IMPROVED APRIL 19 1897



CHARLES H. IRWIN PAT OCT- 21 1884.
IMPROVED APRIL 19 1897

| | | | | | |
|----------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 12 | 14 | 16 | 18 | 20 |
| Price per dozen..... | \$10.50 | 11.25 | 12.00 | 12.75 | 13.50 |

| | | | | |
|----------------------|---------|-------|-------|-------|
| Size in 16ths | 22 | 24 | 28 | 32 |
| Price per dozen..... | \$14.25 | 15.00 | 16.50 | 18.00 |

SETS.

| | |
|------------------|--------|
| 18 Quarters..... | \$3.75 |
| 23 Quarters..... | 4.80 |

18 Quarters contains one each 16, 24, and 32.
23 Quarters contains one each 16, 20, 24, and 32.

DISCOUNT

THE IRWIN AUGER BIT CO.

BRACE AND MACHINE DOWEL-BITS.



CHARLES H. IRWIN PAT. OCT. 21-1884
IMPROVED APRIL 19-1887.

Machine Shank.



CHARLES H. IRWIN PAT. OCT. 21-1884
IMPROVED APRIL 19-1887.

Brace Shank.

DOUBLE CUTTER.

Long Dowels are about $4\frac{1}{2}$ inches entire length.
Short Dowels are about 3 inches entire length.

| | | | | | | |
|---------------------|--------|----------------|------|----------------|------|----------------|
| Size in 16ths | 4 | $4\frac{1}{2}$ | 5 | $5\frac{1}{2}$ | 6 | $6\frac{1}{2}$ |
| Price per dozen.... | \$3.00 | 3.40 | 3.40 | 3.80 | 3.80 | 4.40 |

| | | | | | |
|---------------------|--------|----------------|------|----------------|------|
| Size in 16ths | 7 | $7\frac{1}{2}$ | 8 | $8\frac{1}{2}$ | 9 |
| Price per dozen.... | \$4.40 | 4.80 | 4.80 | 5.20 | 5.20 |

| | | | | | | |
|---------------------|--------|------|------|------|------|------|
| Size in 16ths | 10 | 11 | 12 | 13 | 14 | 15 |
| Price per dozen.... | \$5.60 | 6.10 | 6.60 | 7.20 | 7.80 | 8.40 |

| | | | | | |
|---------------------|--------|------|-------|-------|-------|
| Size in 16ths | 16 | 17 | 18 | 19 | 20 |
| Price per dozen.... | \$9.00 | 9.60 | 10.20 | 10.80 | 11.40 |

Millimeter sizes on pages 41 and 42.

DISCOUNT.....

WILMINGTON, OHIO, U. S. A.

CARPENTERS' NUT AUGERS.

DOUBLE CUTTER.

| | | | |
|---------------------|--------|------|------|
| Size in 16ths | 8 | 10 | 12 |
| Price per dozen.... | \$7.20 | 8.40 | 9.60 |

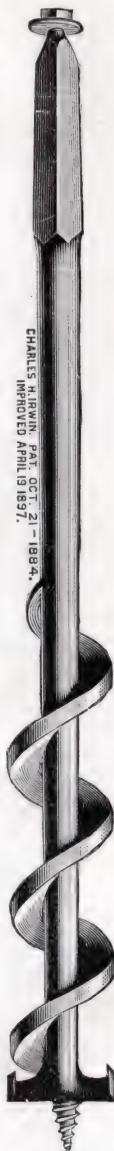
| | | | |
|---------------------|---------|-------|-------|
| Size in 16ths | 14 | 16 | 18 |
| Price per dozen.... | \$10.80 | 12.00 | 13.20 |

| | | | |
|---------------------|---------|-------|-------|
| Size in 16ths | 20 | 22 | 24 |
| Price per dozen.... | \$14.40 | 15.60 | 16.80 |

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 26 | 28 | 30 | 32 |
| Price per dozen.... | \$18.00 | 19.20 | 20.40 | 21.60 |

 Single Cutter on page 25.

DISCOUNT.....



CHARLES HIRWIN, PAT. OCT. 21 - 1884.
IMPROVED APRIL 13 1897.

THE IRWIN AUGER BIT CO.

CARPENTERS' NUT AUGERS.

SINGLE CUTTER.



CHARLES H. IRWIN PAT. OCT. 21 - 1884.
IMPROVED APRIL 19, 1897.

| | | | |
|---------------------|--------|------|------|
| Size in 16ths | 8 | 10 | 12 |
| Price per dozen.... | \$7.20 | 8.40 | 9.60 |

| | | | |
|---------------------|---------|-------|-------|
| Size in 16ths | 14 | 16 | 18 |
| Price per dozen.... | \$10.80 | 12.00 | 13.20 |

| | | | |
|---------------------|---------|-------|-------|
| Size in 16ths | 20 | 22 | 24 |
| Price per dozen.... | \$14.40 | 15.60 | 16.80 |

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 26 | 28 | 30 | 32 |
| Price per dozen.... | \$18.00 | 19.20 | 20.40 | 21.60 |

Double Cutter on page 24.

Millimeter sizes on pages 41 and 42.

DISCOUNT.....

WILMINGTON, OHIO, U. S. A.

SHIP AUGERS.

WITH SPECIAL CUTTERS.

| | | | | | |
|---------------------|----------------|----|---|----------------|------|
| Size in 8ths | $2\frac{1}{2}$ | to | 4 | $4\frac{1}{2}$ | 5 |
| Price per dozen.... | \$7.50 | | | 9.00 | 9.00 |

| | | | | | |
|---------------------|----------------|---|-------|----------------|-------|
| Size in 8ths | $5\frac{1}{2}$ | . | 6 | $6\frac{1}{2}$ | 7 |
| Price per dozen.... | \$10.50 | | 10.50 | 12.00 | 12.00 |

| | | | | | |
|---------------------|----------------|--|-------|----------------|-------|
| Size in 8ths | $7\frac{1}{2}$ | | 8 | $8\frac{1}{2}$ | 9 |
| Price per dozen.... | \$13.50 | | 13.50 | 15.00 | 15.00 |

| | | | | | |
|---------------------|---------|--|-------|-------|-------|
| Size in 8ths | 10 | | 11 | 12 | 13 |
| Price per dozen.... | \$16.50 | | 18.00 | 21.00 | 24.00 |

| | | | | |
|---------------------|---------|--|-------|-------|
| Size in 8ths | 14 | | 15 | 16 |
| Price per dozen.... | \$25.50 | | 27.00 | 31.50 |

Regular stock lengths are 18 to 19 inches, the twist being 14 inches and the shank 4 inches. Special lengths made if wanted. Lengths longer than 18 inches will cost in addition to regular list price as follows:

| | | Per | doz. | list. | \$ |
|--------------------|-------------------------------------|-----|------|-------|------|
| 4 -8 | for each additional inch in length, | " | " | " | .45 |
| 4 $\frac{1}{2}$ -8 | " | " | " | " | .50 |
| 5 -8 | " | " | " | " | .55 |
| 5 $\frac{1}{2}$ -8 | " | " | " | " | .60 |
| 6 -8 | " | " | " | " | .65 |
| 6 $\frac{1}{2}$ -8 | " | " | " | " | .70 |
| 7 -8 | " | " | " | " | .75 |
| 7 $\frac{1}{2}$ -8 | " | " | " | " | .80 |
| 8 -8 | " | " | " | " | .85 |
| 8 $\frac{1}{2}$ -8 | " | " | " | " | .90 |
| 9 -8 | " | " | " | " | .95 |
| 10 -8 | " | " | " | " | 1.05 |
| 11 -8 | " | " | " | " | 1.15 |
| 12 -8 | " | " | " | " | 1.25 |
| 13 -8 | " | " | " | " | 1.35 |
| 14 -8 | " | " | " | " | 1.45 |
| 15 -8 | " | " | " | " | 1.55 |
| 16 -8 | " | " | " | " | 1.65 |

The crimp of the auger is highly polished, and the shank is finished in black.



THE IRWIN AUGER BIT CO.



DERRICK AUGERS.

MADE WITH EITHER DOUBLE OR SINGLE CUTTER.

24 inches long, with 18-inch twist and 6-inch shank.

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 12 | 13 | 14 | 15 |
| Price per dozen.... | \$17.70 | 19.20 | 20.70 | 22.20 |

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 16 | 17 | 18 | 20 |
| Price per dozen.... | \$23.70 | 25.20 | 26.70 | 29.70 |

With 24-inch twist and 6-inch shank or 18-inch twist and 18-inch shank.

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 12 | 13 | 14 | 15 |
| Price per dozen.... | \$21.60 | 23.40 | 25.20 | 27.00 |

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 16 | 17 | 18 | 20 |
| Price per dozen.... | \$28.80 | 30.60 | 32.40 | 36.00 |

36 inches long, with 30-inch twist and 6-inch shank.

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 12 | 13 | 14 | 15 |
| Price per dozen.... | \$25.50 | 27.60 | 29.70 | 31.80 |

| | | | | |
|---------------------|---------|-------|-------|-------|
| Size in 16ths | 16 | 17 | 18 | 20 |
| Price per dozen.... | \$33.90 | 36.00 | 38.10 | 42.30 |

Made with either single or double cutter.

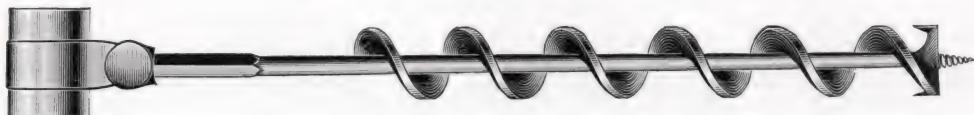
These augers are largely used in the oil regions for building derricks, etc., being especially adapted for that class of work on account of their strength and clearance, thus avoiding all danger of choking.

DISCOUNT.....

WILMINGTON, OHIO, U. S. A.

Ring Augers.—With Our Attachable Rings.

EITHER DOUBLE OR SINGLE CUTTERS.



| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Size in 16ths | 8 | 9 | 10 | 11 | 12 |
| Price per dozen.... | \$9.20 | 9.80 | 10.40 | 11.00 | 11.60 |
| Size in 16ths | 13 | 14 | 15 | 16 | 17 |
| Price per dozen.... | \$12.20 | 12.80 | 13.40 | 14.00 | 14.60 |
| Size in 16ths | 18 | 20 | 22 | 24 | |
| Price per dozen.... | \$15.20 | 16.40 | 17.60 | 18.80 | |
| Size in 16ths | 26 | 28 | 30 | 32 | |
| Price per dozen.... | \$20.00 | 21.20 | 22.40 | 23.60 | |

Note.

The rings are riveted on, but if preferred will be tightened with a set-screw. Regular stock lengths are 22 to 23 inches from base of screw point to ring, the twist being 16 to 17 inches and the shank 6 inches. Special lengths made if wanted. Lengths longer than 23 inches will cost in addition to regular list price as follows:

| | | | |
|-------|-------------------------------------|-----------|--------------|
| 8-16 | for each additional inch in length, | Per dozen | list, \$0.45 |
| 9-16 | " " | " " | .50 |
| 10-16 | " " | " " | .55 |
| 11-16 | " " | " " | .60 |
| 12-16 | " " | " " | .65 |
| 13-16 | " " | " " | .70 |
| 14-16 | " " | " " | .75 |
| 15-16 | " " | " " | .80 |
| 16-16 | " " | " " | .85 |
| 17-16 | " " | " " | .90 |
| 18-16 | " " | " " | .95 |
| 20-16 | " " | " " | 1.05 |
| 22-16 | " " | " " | 1.15 |
| 24-16 | " " | " " | 1.25 |
| 26-16 | " " | " " | 1.35 |
| 28-16 | " " | " " | 1.45 |
| 30-16 | " " | " " | 1.55 |
| 32-16 | " " | " " | 1.65 |

The crimp of the auger is highly polished, and the shank and ring are finished in black.

THE IRWIN AUGER BIT CO.

RAFTING AUGERS.

RINGS RIVETED ON.



30 inches long (12-inch twist and 18-inch shank).

| | | | | |
|-----------------------|---------|-------|-------|-------|
| Size in 16ths | 16 | 18 | 20 | 24 |
| Price per dozen | \$20.00 | 20.00 | 22.00 | 24.00 |

| | | | | |
|-----------------------|---------|-------|-------|-------|
| Size in 16ths | 28 | 32 | 36 | 40 |
| Price per dozen | \$29.00 | 34.00 | 40.00 | 48.00 |

AUGER RINGS.



When ordered separate from augers, Per dozen, \$2.00

DISCOUNT

WILMINGTON, OHIO, U. S. A.

SUGAR-TREE BITS.



CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19, 1897.

SINGLE CUTTER.



CHARLES H. IRWIN PAT. OCT. 21-1884.
IMPROVED APRIL 19, 1897.

DOUBLE CUTTER.

EITHER DOUBLE OR SINGLE CUTTER.

| Size in 16ths | 6 | 7 | 8 | 9 |
|----------------------|--------|------|------|------|
| Price per dozen | \$3.80 | 4.40 | 4.80 | 5.20 |

| Size in 16ths | 10 | 11 | 12 |
|----------------------|--------|------|------|
| Price per dozen | \$5.60 | 6.10 | 6.60 |

DISCOUNT.....

SCREW-DRIVER BITS.

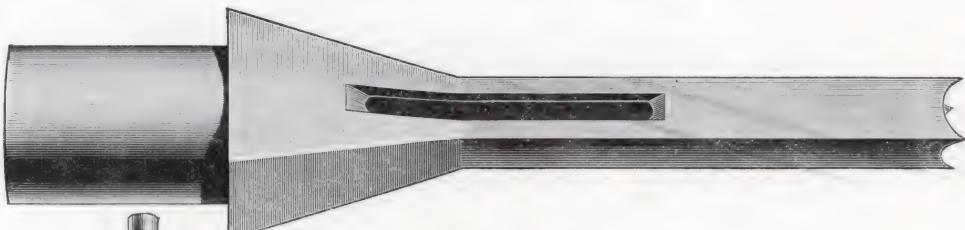


| | | | |
|----------------------|-----------|-----------|------------|
| Length | 4 inches. | 6 inches. | 10 inches. |
| Price per dozen | \$1.50 | \$2.00 | \$3.00 |

DISCOUNT.....

THE IRWIN AUGER BIT CO.

HOLLOW CHISEL BITS.



SINGLE OR DOUBLE CUTTER.

| | | | | | |
|---------------------|---|----|---|----|---|
| Size in 16ths | 4 | 4½ | 5 | 5½ | 6 |
|---------------------|---|----|---|----|---|

| | | | | | |
|---------------------|--------|-------|------|------|------|
| Price per dozen.... | \$4.50 | *5.10 | 5.10 | 5.70 | 5.70 |
|---------------------|--------|-------|------|------|------|

| | | | | | |
|---------------------|----|---|----|---|----|
| Size in 16ths | 6½ | 7 | 7½ | 8 | 8½ |
|---------------------|----|---|----|---|----|

| | | | | | |
|---------------------|--------|------|------|------|------|
| Price per dozen.... | \$6.60 | 6.60 | 7.20 | 7.20 | 7.80 |
|---------------------|--------|------|------|------|------|

| | | | | | |
|---------------------|---|----|----|----|----|
| Size in 16ths | 9 | 10 | 11 | 12 | 13 |
|---------------------|---|----|----|----|----|

| | | | | | |
|---------------------|--------|------|------|------|-------|
| Price per dozen.... | \$7.80 | 8.40 | 9.15 | 9.90 | 10.80 |
|---------------------|--------|------|------|------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 14 | 15 | 16 | 17 | 18 |
|---------------------|----|----|----|----|----|

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Price per dozen.... | \$11.70 | 12.60 | 13.50 | 14.40 | 15.30 |
|---------------------|---------|-------|-------|-------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 19 | 20 | 21 | 22 | 23 |
|---------------------|----|----|----|----|----|

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Price per dozen.... | \$16.20 | 17.10 | 18.00 | 18.90 | 19.80 |
|---------------------|---------|-------|-------|-------|-------|

| | | | | | |
|---------------------|----|----|----|----|----|
| Size in 16ths | 24 | 26 | 28 | 30 | 32 |
|---------------------|----|----|----|----|----|

| | | | | | |
|---------------------|---------|-------|-------|-------|-------|
| Price per dozen.... | \$20.70 | 22.50 | 24.30 | 26.10 | 27.90 |
|---------------------|---------|-------|-------|-------|-------|

Bits longer than 8 inches at special prices.

CHARLES H. IRWIN, PAT'D OCT. 21-1884.
IMPROVED APRIL-15-1887.

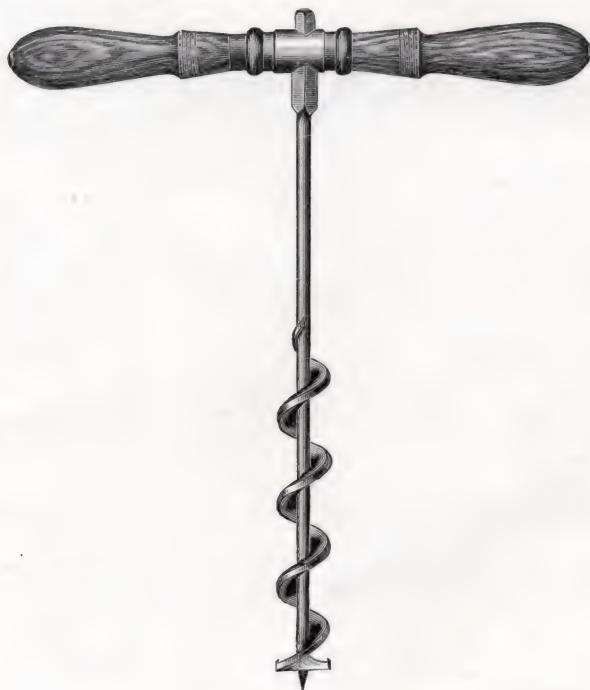


WILMINGTON, OHIO, U. S. A.

AUGER HANDLES.



List price..... Per dozen, \$8.50



Handle Adjusted to Auger.

THESE Handles are simple in construction, easily and quickly adjusted, and will fit any Auger-Bit, Car Bit or Carpenters' Auger having a square shank.



CONVEYORS.

In any length, from 3 feet up to 20 feet. Sizes and prices as follows:

| | | | |
|------------------------------------|----------|-----------|--------|
| $\frac{3}{4}$ -inch, not polished. | Per foot | list..... | \$1.50 |
| $\frac{7}{8}$ " " | " " | " " | 1.80 |
| 1 " | " " | " " | 2.00 |
| $1\frac{1}{8}$ " " | " " | " " | 2.20 |
| $1\frac{1}{4}$ " " | " " | " " | 2.20 |
| $1\frac{1}{2}$ " " | " " | " " | 2.40 |
| $1\frac{3}{4}$ " " | " " | " " | 2.40 |
| 2 " | " " | " " | 2.50 |

If polished, same will be at extra price. These Conveyors are solid, being forged from one piece of steel.

DISCOUNT.....

NAIL SETS.



Assorted Sizes Per dozen, \$1.00

DISCOUNT

**COMBINATION COUNTER-SINK and
NAIL-SET.**



Assorted Sizes Per dozen, \$1.50

This Counter-sink does not require the use of a brace, but is simply driven into the wood, making a smooth, even hole, without any rough edges. Only a few strokes of the hammer are required. It is equally adapted for use as a Nail-set.

DISCOUNT

THE IRWIN AUGER BIT CO.



HUB AUGERS.

| | | | |
|---------------------|----|----|----|
| Size in 16ths | 12 | 14 | 16 |
|---------------------|----|----|----|

| | | | |
|---------------------|---------|-------|-------|
| Price per dozen.... | \$13.80 | 16.20 | 18.60 |
|---------------------|---------|-------|-------|

| | | |
|---------------------|----|----|
| Size in 16ths | 18 | 20 |
|---------------------|----|----|

| | | |
|---------------------|---------|-------|
| Price per dozen.... | \$21.00 | 23.40 |
|---------------------|---------|-------|

Twist, 12 inches; shank, $2 \times \frac{3}{4}$ inch.

Twist longer than 12 inches at special price, see page 20. Taper shank, extra price.

Extra good for end boring.

WILMINGTON, OHIO, U. S. A.

AUGER-BITS IN SETS.

THE "MODEL" CASE.



The accompanying cut shows the style of our new "Model" Bit case, and we claim it to be the best on the market. It is made of beautiful grained wood, finely polished, and has folding lid and sliding drawer.

List Price Per Set, \$6.25.

Each set contains one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 sixteenths.

Contains One Set 32½ Quarters.

Just what you need.

The latest, newest, best—combining both convenience and durability.

No extra charge for sets packed in these cases.

No cases sent without bits are contained therein.

In ordering, state whether single or double cutters are wanted.

AUGER-BITS IN SETS.

20 1-2 QUARTERS.



Owing to the large demand made by the trade for a set smaller than the 32½ Quarters, we sell a set that we term 20½ Quarters, or "Farmer's Set." We also make another set box, in which we pack sets of 25½ Quarters.

List Price.

| | |
|-------------------|-----------------|
| 20½ Quarters..... | Per Set, \$4.25 |
| 25½ Quarters..... | Per Set, 5.00 |

The box is the same style as the one in which the sets of 32½ Quarters are packed.

This set contains sizes suitable for the farmers, or any one not requiring a complete line of the various sizes.

Each set of 20½ Quarters contains one each 4, 5, 6, 7, 8, 10, 12, 14 and 16 sixteenths Auger-Bits and one 6-inch Screw-driver Bit.

Each set of 25½ Quarters contains one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 and 16 sixteenths Auger-Bits.

SETS.

Sets of Auger and Car Bits are Assorted as Follows:

$20\frac{1}{2}$ Quarters—One each 4, 5, 6, 7, 8, 10, 12, 14 and 16ths
Auger-bits and one 6-inch Screw-driver Bit.

24 Quarters—One each 4, 5, 7, 9, 11, 12, and two each 6, 8, and 10 sixteenths.

$25\frac{1}{2}$ Quarters—One each 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 and 16 sixteenths.

$32\frac{1}{2}$ Quarters—One each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16 sixteenths.

SETS.

Sets of Boring Machine Augers.

18 Quarters—One each 16, 24 and 32 sixteenths.

24 Quarters—One each 16, 20, 24 and 32 sixteenths.

Sets.

$11\frac{1}{4}$ Quarters contains one each 4, 5, 6, 8, 10, 12-16ths.

14 Quarters contains one each 4, 6, 8, 10, 12, 16-16ths.

18 Quarters contains one each 4, 5, 6, 7, 8, 9, 10, 11, 12-16ths.

$18\frac{3}{4}$ Quarters contains one each 4, 5, 6, 8, 10, 12, 14, 16-16ths.

THE IRWIN AUGER BIT CO.

Goods by Express at buyer's expense.

Freight Prepaid on freight shipments to points not over 500 miles distant.

Double Cutter Bits always shipped, unless otherwise specified.

All Bits are packed in Dozen and Half-dozen Boxes.

Carpenters' Augers are packed in Half-dozen and One-fourth Dozen Boxes.

Machine Bits always in stock in sizes from 4-16 to 16-16, with twist 3, 4, 5, 6, 7, 8, 10 and 12 inches long. Shank 2 inches long by $\frac{1}{2}$ inch in diameter.

Machine Bits with twist more than 6 inches will be charged for at special prices.

Any Half or Medium Sizes will be furnished at the same price as the next regular size larger.

No Extra Charge for sets packed in fancy set boxes, but no boxes sent unless Bits are contained therein.

CHUCKS.

ALL large factories should adopt a standard-sized Chuck, and they would be enabled to buy their Bits at greatly reduced prices, and would also be enabled to secure them promptly.

The extra expense in adopting a standard-sized Chuck would be more than saved on the first few orders bought.

All Machine Bits kept in stock by us have shank 2 inches long and $\frac{1}{2}$ inch in diameter.

Chucks should fit closely, so that when the set-screw is tightened the bit will not be pushed to one side, and the point run in a circle, or out of center.

The speed of the cutting is regulated by the pitch of the thread on the screw-point.

THE IRWIN AUGER BIT CO.

Millimeter Sizes with Table of Decimal Equivalents.

| Millimeters. | Our sizes Nearest to Millimeters. | Exact Fraction of Inch. | Exact Equivalent in Decimals. | Exact Equivalent in Millimeters. |
|--------------|---|-------------------------------|-------------------------------------|--|
| 5 | 3 | $\frac{3}{16}$ | .1875 | 4.76 |
| 5a | 3 $\frac{1}{2}$ | $\frac{7}{8}$ | .2187 | 5.55 |
| 6 | 4 | $\frac{4}{16}$ | .2500 | 6.35 |
| 7 | 4 $\frac{1}{2}$ | $\frac{9}{8}$ | .2812 | 7.14 |
| 8 | 5 | $\frac{5}{16}$ | .3125 | 7.94 |
| 9 | 5 $\frac{1}{2}$ | $\frac{11}{8}$ | .3437 | 8.73 |
| 9a | 6 | $\frac{3}{8}$ | .3750 | 9.53 |
| 10 | 6 $\frac{1}{2}$ | $\frac{13}{8}$ | .4062 | 10.32 |
| 11 | 7 | $\frac{7}{16}$ | .4375 | 11.12 |
| 12 | 7 $\frac{1}{2}$ | $\frac{15}{8}$ | .4687 | 11.90 |
| 13 | 8 | $\frac{1}{2}$ | .5000 | 12.70 |
| 13a | 8 $\frac{1}{2}$ | $\frac{17}{8}$ | .5312 | 13.49 |
| 14 | 9 | $\frac{9}{16}$ | .5625 | 14.29 |
| 15 | 9 $\frac{1}{2}$ | $\frac{19}{8}$ | .5937 | 15.08 |
| 16 | 10 | $\frac{5}{8}$ | .6250 | 15.88 |
| 17 | 10 $\frac{1}{2}$ | $\frac{31}{8}$ | .6562 | 16.67 |
| 17a | 11 | $\frac{11}{16}$ | .6875 | 17.47 |
| 18 | 11 $\frac{1}{2}$ | $\frac{33}{8}$ | .7187 | 18.26 |
| 19 | 12 | $\frac{3}{4}$ | .7500 | 19.06 |
| 20 | 12 $\frac{1}{2}$ | $\frac{35}{8}$ | .7812 | 19.85 |
| 21 | 13 | $\frac{13}{16}$ | .8125 | 20.64 |
| 21a | 13 $\frac{1}{2}$ | $\frac{37}{8}$ | .8437 | 21.43 |
| 22 | 14 | $\frac{7}{8}$ | .8750 | 22.23 |
| 23 | 14 $\frac{1}{2}$ | $\frac{39}{8}$ | .9062 | 23.02 |
| 24 | 15 | $\frac{15}{16}$ | .9375 | 23.82 |
| 24a | 15 $\frac{1}{2}$ | $\frac{31}{8}$ | .9687 | 24.61 |
| 25 | 16 | $\frac{16}{16}$ | 1.0000 | 25.40 |
| 26 | 16 $\frac{1}{2}$ | $1\frac{1}{8}$ | 1.0311 | 26.19 |

WILMINGTON, OHIO, U. S. A.

Millimeter Sizes with Table of Decimal Equivalents.—Cont'd.

| Millimeters. | Our Sizes Nearest to Millimeters. | Exact Fraction of Inch. | Exact Equivalent in Decimals. | Exact Equivalent in Millimeters. |
|--------------|---|-------------------------------|-------------------------------------|--|
| 27 | 17 | 1 $\frac{1}{6}$ | 1.0625 | 26.99 |
| 28 | 17 $\frac{1}{2}$ | 1 $\frac{3}{8}$ | 1.0937 | 27.78 |
| 28a | 18 | 1 $\frac{1}{8}$ | 1.1250 | 28.58 |
| 29 | 18 $\frac{1}{2}$ | 1 $\frac{5}{8}$ | 1.1562 | 29.37 |
| 30 | 19 | 1 $\frac{3}{6}$ | 1.1875 | 30.16 |
| 31 | 19 $\frac{1}{2}$ | 1 $\frac{7}{8}$ | 1.2187 | 30.95 |
| 32 | 20 | 1 $\frac{1}{4}$ | 1.2500 | 31.75 |
| | 20 $\frac{1}{2}$ | 1 $\frac{9}{8}$ | 1.2812 | 32.54 |
| 33 | 21 | 1 $\frac{5}{6}$ | 1.3125 | 33.34 |
| 34 | 21 $\frac{1}{2}$ | 1 $\frac{11}{8}$ | 1.3437 | 34.13 |
| 35 | 22 | 1 $\frac{3}{8}$ | 1.3750 | 34.93 |
| 36 | 22 $\frac{1}{2}$ | 1 $\frac{13}{8}$ | 1.4062 | 35.75 |
| 36a | 23 | 1 $\frac{9}{6}$ | 1.4375 | 36.51 |
| 37 | 23 $\frac{1}{2}$ | 1 $\frac{15}{8}$ | 1.4687 | 37.30 |
| 38 | 24 | 1 $\frac{1}{2}$ | 1.5000 | 38.10 |
| 39 | 24 $\frac{1}{2}$ | 1 $\frac{17}{8}$ | 1.5312 | 38.89 |
| 40 | 25 | 1 $\frac{9}{6}$ | 1.5625 | 39.69 |
| 40a | 25 $\frac{1}{2}$ | 1 $\frac{19}{8}$ | 1.5937 | 40.48 |
| 41 | 26 | 1 $\frac{5}{8}$ | 1.6250 | 41.28 |
| 42 | 26 $\frac{1}{2}$ | 1 $\frac{21}{8}$ | 1.6562 | 42.07 |
| 43 | 27 | 1 $\frac{1}{6}$ | 1.6875 | 42.86 |
| 44 | 27 $\frac{1}{2}$ | 1 $\frac{23}{8}$ | 1.7187 | 43.65 |
| 44a | 28 | 1 $\frac{3}{4}$ | 1.7500 | 44.45 |
| 45 | 28 $\frac{1}{2}$ | 1 $\frac{25}{8}$ | 1.7812 | 45.24 |
| 46 | 29 | 1 $\frac{1}{6}$ | 1.8125 | 46.04 |
| 47 | 29 $\frac{1}{2}$ | 1 $\frac{27}{8}$ | 1.8437 | 46.83 |
| 48 | 30 | 1 $\frac{7}{8}$ | 1.8750 | 47.63 |
| 48a | 30 $\frac{1}{2}$ | 1 $\frac{29}{8}$ | 1.9062 | 48.42 |
| 49 | 31 | 1 $\frac{1}{6}$ | 1.9375 | 49.21 |
| 50 | 31 $\frac{1}{2}$ | 1 $\frac{31}{8}$ | 1.9687 | 50.00 |
| 51 | 32 | 2 | 2.0000 | 50.80 |

THE IRWIN AUGER BIT CO.

TO THE HOME TRADE.

TO those customers who have patronized us in the past we would extend thanks, and ask for a continuance of their valued orders in the future.

To those who have not handled our goods we would ask them to give us a trial, and we are confident that they will in future continue with us.

—O—

TO THE EXPORT TRADE.

YOU that have not yet seen, heard of, or for any other cause not yet taken hold of our line, we would ask for the privilege of submitting samples, naming prices, etc.

You who have favored us with your valued orders during the past, may rest assured that we fully appreciate your favors, and would ask that we may be the recipients of same in future, and also that you will please accept our thanks for favors past and to come.

...INDEX...

| | PAGE. |
|--|------------|
| Auger Handles..... | 32 |
| " Boring Machine, Double Cutter..... | 21 |
| " Boring Machine, Single Cutter..... | 22 |
| Augers, Carpenters' Nut, Double Cutter..... | 24 |
| " Carpenters' Nut, Single Cutter..... | 25 |
| " Derrick, Single or Double Cutter | 27 |
| " Hub | 35 |
| " Rafting, Single or Double Cutter | 29 |
| " Ring, Single or Double Cutter..... | 28 |
| Bits, Auger, Double Cutter..... | 9 |
| " Auger, Single Cutter | 10 |
| " Auger, for Boring Hardwood | 15 |
| " Car, Double Cutter..... | 13 |
| " Car, Single Cutter..... | 14 |
| " Car, for Boring Hardwood | 15 |
| " Dowel, Single or Double Cutter | 23 |
| " Hollow Chisel..... | 31 |
| " Machine, Double Cutter..... | 18 |
| " Machine, Single Cutter..... | 19 |
| " Machine, special lengths and prices | 20 |
| " Screw-driver..... | 30 |
| " Sugar-Tree..... | 30 |
| Chucks, Machine | 40 |
| Conveyors..... | 33 |
| Countersinks | 34 |
| Millimeter Sizes..... | 41, 42 |
| Miscellaneous | 39 |
| Nail-senks | 34 |
| Sets, Auger-Bit..... | 36, 37, 38 |
| Ship Auger-Bits..... | 10½ |
| " " Car Bits..... | 14½ |
| " " Car Bits, special lengths..... | 14¾ |
| Ship Augers..... | 26 |

GEO. L. VINZ
Maker of
Hardware Catalogues
Detroit, Mich.

